

Title (en)
OPTICAL COUPLER FOR IN VIVO EXAMINATION OF BIOLOGICAL TISSUE

Title (de)
OPTISCHE KOPPELVORRICHTUNG ZUR IN-VIVO UNTERSUCHUNG VON BIOLOGISCHEN GEWEBEN

Title (fr)
COUPLEUR OPTIQUE POUR UN EXAMEN IN VIVO DE TISSUS BIOLOGIQUES

Publication
EP 0808124 A4 19980819 (EN)

Application
EP 96902117 A 19960102

Priority
• US 9600235 W 19960102
• US 36793995 A 19950103
• US 9515694 W 19951204
• US 9515666 W 19951204

Abstract (en)
[origin: WO9620638A1] An optical coupler for in vivo examination of biological tissue includes an optical input port (19) positionable on or near the examined tissue (40), a first light guide (20) optically coupled to the optical input port and constructed to transmit optical radiation of a visible or infrared wavelength from a source to the optical input port (19). The optical coupler also includes an optical detection port (21), positionable on or near the examined tissue, constructed and arranged to receive radiation that has migrated in the examined tissue from the input port (19). Connected to the detection port (21) is a detector light guide (22), constructed to transmit radiation from the detection port to an optical detector. Disposed at least partially around the examined tissue and the input and detection ports is optical medium (12) arranged to couple the radiation to the tissue, limit escape of photons, or account for photons that escaped from the tissue.

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A61B 5/00

IPC 8 full level
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Citation (search report)
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• [XY] US 5090415 A 19920225 - YAMASHITA TAKAJI [JP], et al
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